

III.—Observations of the Tides at Chittagong made in conformity with the Circular of the Asiatic Society. By Lieut H. SIDDONS, Engineers.

Tide Registry.						[See sketch in Pl. L.]
Alishuhr Beach, July, 1837.						
Times of High water.						Moon passes meridian.
Date.	1st Tide.	2d Tide.	Date.	1st Tide.	2d Tide.	
1	● Passed	mern. S.	16	11 ^h 06 ^m	23 ^b 63 ^m	or 0 03 of the 17th.
2	0 ^h 37 ^m	13 ^h 15 ^m	17	11 58	0 57	
3	1 3	13 55	18	13 23	1 54	● 1 ^d 23 ^h 31.7 ^m mean time.
4	1 51	14 25	19	14 19	2 45	○ 17 11 58.3
5	2 30	14 57	20	14 57	3 21	● 29 22 45.8
6	2 45	15 12	21	15 21	3 51	
7	3 03	15 35	22	16 27	4 31	
8	3 38	16 04	23	17 17	5 21	
9	4 03	16 43	24	17 51	6 51	
10	4 35	17 38	25	18 42	7 40	
11	6 03	18 48	26	19 43	8 49	
12	7 07	20 17	27	20 54	10 01	
13	8 10	21 10	28	22 11	10 59	
14	9 09	22 06	29	23 15	or a $\frac{1}{4}$	past 11 A. M. of the 30th.
15	10 03	23 07				Observations stopped by mistake a day too soon.

All the above are expressed in mean time.

The second tide of the 16th should stand as the first of the 17th, and so on for the remainder.

October, 1837.

Mean Time. ☽ Meridional passage ○ 13th Oct. 11 35 06
 ● 29th Sept. 24^h 09^m 00^s ● 28th Oct. 23 31 45

1	2 ^h 10 ^m	14 ^h 12 ^m	There must have been a heavy gale somewhere from the 4th to the 8th; the swell here was very great and the times noted so far doubtful on account of the waves. On Wednesday the 4th we had violent squalls of wind and rain; there was no barometer to note the fall, but the atmosphere felt remarkably heavy though chilly.	
2	2 41	14 46		
3	3 13	15 19		
4	3 46	15 52		
5	4 17	16 24		
6	4 50	16 56		
7	5 26	17 28		
8	6 32	19 29		
9	9 38	21 40		
10	10 34	22 36		
11	11 44	23 49		
12	...	12 33		
13	0 31	13 19	On the 13th the diff. between day and night flood by Mr. C. W. Mullins was 9 inches, this at the Sudder ghat, Chittagong 12 miles up the river.	
14	1 14	14 0		
15	1 47	14 22		
16	2 23	14 53		
17	2 56	15 24	On the 22nd 3 inches, } According nearly with my own.	
18	3 28	15 56	23rd 2 $\frac{1}{2}$ inches, }	
19	3 48	16 02		
20	4 11	16 43		
21	4 49	17 28		
22	5 50	20 40		
23	8 43	21 42	Rise of day Tide.	Diff. btwn. D. & night } ins.
24	9 46	22 45	Ft. in. 8th	Ft. in. 8th
25	10 48	23 35	7 6 0	0 3 4
26	11 40	...	8 6 4	0 2 5
27	0 20	12 25	9 7 7	0 7 1
28	0 50	12 52	10 8 3	0 8 5
29	1 22	13 21	11 9 3	0 9 0
30	1 48	13 50	12 10 7	0 9 5
31	2 05	14 15	13 7 2	0 10 6
1	2 31	No obs.	13 2 0	1 6 2
2	No obs.	Ditto.	13 2 0	1 8 3
			11 11 4	1 6 0
			1 3 5	1 6 0

These observations were all taken by me at Point Petunga, the mouth of the Chittagong river, where I had gone for change of (and sea) air.

On the 29th there was a diff. between the flood tide at Alishuhr and Point Petunga at the mouth of the river (about 12 miles south) of 15 minutes: the other days were not noted.